

SPECIAL CONDITIONS

**Waste Connections of Kansas, Inc.
Plumb Thicket Landfill
Municipal Solid Waste Landfill
Permit No. 842**

1. **Special use permit:** The Permittee shall comply with Resolution No. 2002-04 adopted by the Board of County Commissioners of Harper County on March 5, 2002, and amendments thereof.
2. **Storage tank permit:** Unless exempted, the Permittee shall submit a permit application for aboveground diesel fuel storage tank(s) to the KDHE - Bureau of Environmental Remediation in accordance with the applicable requirements, and prior to installing the storage tank(s). The Permittee shall submit documentation of the permit application or exemption to the KDHE-Bureau of Waste Management (BWM).
3. **Wetland mitigation:** The Permittee shall notify the KDHE-BWM prior to construction of wetland mitigation measures, and the Permittee shall submit annual monitoring reports on wetland mitigation to the KDHE-BWM for at least 5 years. In addition to the monitoring records described in the wetland mitigation plan, the monitoring reports shall include representative photographs of the wetland mitigation areas.
4. **Pipeline:** The Permittee shall have the White Pine Petroleum pipeline relocated and the associated easement vacated, and the Permittee shall provide documentation thereof to the KDHE-BWM prior to disturbing any part of the facility within 25 feet of the pipeline easement.
5. **Power line:** The Permittee shall have the Sumner-Cowley Cooperative power line relocated and the associated easement vacated, and shall provide documentation thereof to the KDHE-BWM prior to disturbing any part of the facility within 25 feet of the power line easement.
6. **Design capacity report:** The Permittee shall submit an Initial Design Capacity Report to the KDHE - Bureau of Air & Radiation (BAR) within 180 days of the date of issuance of this solid waste permit, and the Permittee shall submit a copy of that report to the KDHE-BWM concurrent with the submission to the KDHE-BAR.
7. **Landfill gas controls:** The Permittee shall submit design drawings and an engineering report to the KDHE-BWM for a landfill gas collection and control system before the estimated emissions of non-methane organic compounds (NMOCs) exceed 50% of 50 megagrams/year, or sooner if required.
8. **Landfill gas feasibility study:** Within 180 days after completion of construction of the first phase of a permanent landfill gas collection system at this facility, or sooner if required, the Permittee shall submit a report to the KDHE-BWM

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evaluating the feasibility of beneficial utilization of the landfill gas generated at this facility. If required, the Permittee shall submit additional feasibility reports at subsequent intervals specified by the KDHE-BWM.

9. **Vehicle wash:** The Permittee shall obtain KDHE-BWM approval for facility modifications prior to installing a vehicle wash station.
10. **Leachate storage area:** The Permittee shall submit as-built drawings to the KDHE-BWM within 90 days of completion of construction of the leachate storage area. The as-built drawings shall show construction details not shown on the approved plans, including the size and number of tanks, the precise tank locations, tank and piping materials and manufacturers, connection details, and other appropriate information.
11. **Emergency directory:** Prior to commencement of waste disposal operations at the landfill, the Permittee shall submit an updated Emergency Response Directory to the KDHE-BWM including names and telephone numbers of appropriate landfill staff.
12. **Water storage:** The Permittee shall submit a permit application for water storage to the Kansas Department of Agriculture-Division of Water Resources in accordance with the applicable requirements, and at least one year prior to constructing Retention Pond II. The Permittee shall submit documentation of the permit application and permit issuance to the KDHE-BWM.
13. **Groundwater Monitoring:** The Permittee shall comply with parts (a) - (c) below:
 - (a) In addition to the documents specifically listed on the permit, KDHE-approved groundwater monitoring and groundwater sampling and analysis plans are also included by reference. The Permittee shall construct, operate, and maintain a groundwater monitoring system or systems in accordance with plans approved by KDHE for this facility. Also, the Permittee shall monitor and assess the groundwater conditions at this facility in accordance with a groundwater sampling and analysis plan or related plans approved by KDHE for this facility, and any approved amendments and/or supplements thereof. This condition shall be implemented consistent with K.A.R. 28-29-111 through 114 and other state rules.
 - (b) Prior to the construction of Phases 14 and 15, an overburden well shall be

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installed immediately south of those cells (to the east of Detention Pond V at the drainage input for Pond 1). This new well and overburden well PZ-27s shall be included in the detection monitoring well network.

- (c) Also, prior to the construction of Phases 14 and 15, two additional overburden wells shall be installed at the drainages to existing Pond 2 (to the west and south of Phase 15) and Detention Pond V shall be sampled. These wells and the pond are not part of the regular detection monitoring well network and shall be sampled quarterly for the geochemical constituents found in leachate. Analytical results shall be submitted to KDHE-BWM within 30 days.
 - (d) Prior to placement of waste in the landfill, the Sampling and Analysis Plan (SAP) shall be modified and the following additional sampling points installed:
 - (i) An additional surface water sampling location designated SW-4 on the surface water drainage in the northwest quarter of the southeast quarter of Section 3, Township 31 South, Range 6 West to detect any possible contamination derived from drainage along the eastern side of the landfill area; and
 - (ii) Additional bedrock wells at the southeast corner of the landfill footprint to be screened at the same elevation as the base of the landfill to detect any leachate flowing horizontally within any potential shallow permeable portion of the bedrock.
 - (e) Prior to construction of Area C, the Permittee shall install additional bedrock groundwater monitoring wells nested with existing well PZ-17 and proposed well OB-1. The Permittee shall monitor those wells during the operation and post-closure period of Area C. The Permittee shall modify the SAP accordingly.
14. **Development of Area D:** Prior to constructing and operating the fourth phase of the landfill, which is the northwest part of the waste disposal area labeled "Area D, Approximately 50 Acres" on the Site Development Plan, the Permittee shall provide additional information to the KDHE-BWM to demonstrate that all requirements have been addressed with regard to proper vertical separation from the uppermost aquifer and management of groundwater seepage through the excavated side slopes. Such demonstration may include one or more of the

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following measures, but shall not necessarily be limited to the following measures: (a) long-term monitoring showing that the water table in the overburden has been permanently lowered as a result of excavation and dewatering; (b) amended plans specifying higher base elevations to provide adequate vertical separation between the landfill and the highest water table elevations on record; and/or (c) amended plans specifying a system for intercepting and draining groundwater from the overburden to permanently lower the water table in the overburden within the limits of Area D. The Permittee shall not construct or operate Area D unless or until the KDHE-BWM authorizes those actions.

15. **Groundwater seepage drains:** The Permittee shall install a system for intercepting and draining groundwater seepage along all excavated side slopes of the landfill. The Permittee shall submit design plans, design calculations, operations plans, and other information as required for the KDHE-BWM's review and approval prior to constructing seepage drains.